

Fig.1

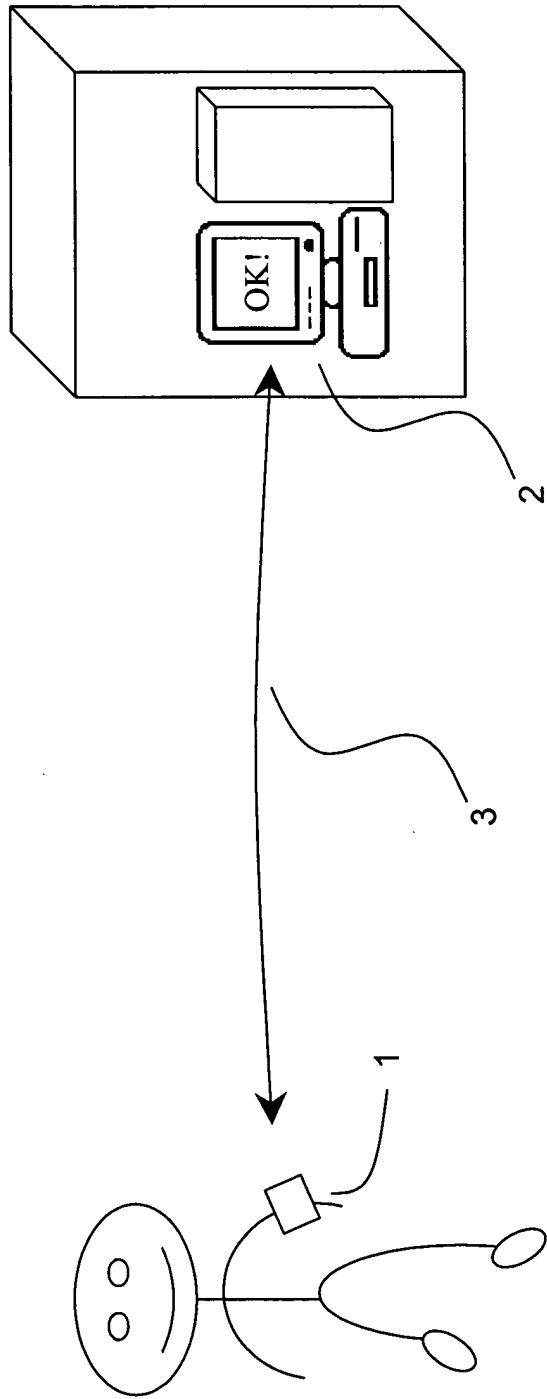


Fig.2

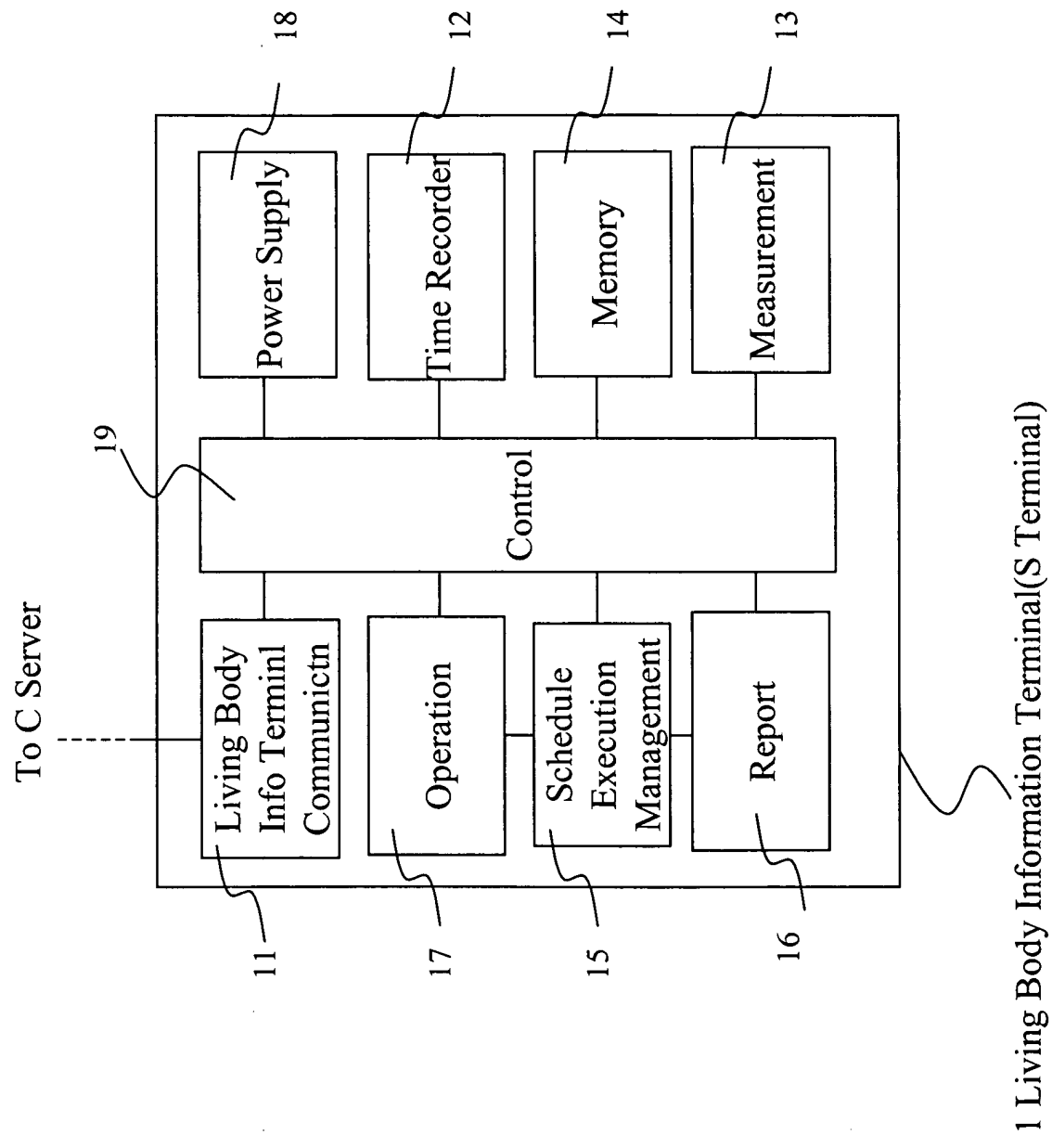


Fig.3

(a) Uer_ID,S Terminal,STD					Action Table Information				
Task No.	Termnl ID	Execution time/ trig. condtn	Action	Duration	Execution Result				
1	UDE	12:00	Lunch alarm:Have lunch	120	OK/NG				
2	UDE	Tas No1=30 min. after OK	Medication alarm:Take medicine	30	OK/NG				
3	UDE	Task No2=30 min. after OK	Pulse alarm:Measure pulse	30	DATA/NG				
4	UDE	Every 30 mins.	Automatic Measurement:Pulse	-	DATA				
...	...	...	...	...	...				

(b) Uer_ID,S Terminal,S_e1									
Task No.	Terminl ID	Execution time/ trig. condtn	Action	Duration	Execution Result				
1	UDE	Every 5 min.	Automatic Measurement:Pulse	-	DATA				
2	UDE	Continuous	Alarm:Have lunch	60	OK/NG				
...	...	...	...	...	...				

(c) Uer_ID,S Terminal,S_e2									
Task No.	Termnl ID	Execution time/ trig. condtn	Action	Duration	Execution Result				
1	UDE	Every 10 min.	Automatic Measurement:Pulse	-	DATA				
2	UDE	Continuous	Alarm:Take medicine	60	OK/NG				
...	...	...	...	...	...				

(d) Judgment Table Information

Action	Execution Result	Judgment
Alarm:Lunch	OK	Send log to C
	NG	Change Table S_e1 Send log to C
Alarm:Medicine	OK	Send log to C
	NG	Change Table S_e2 Send log to C
Alarm:Pulse	DATA>150 DATA<50 NG	Request for judge_C Send log to C
	50<DATA<150	Send log to C
Automatic Measurement:Pulse	DATA>150 DATA<50 NG	Request for Judge_C Send log to C
	50<DATA<150	Send log to C
Alarm:***	OK	Send log to C
	NG	Send log to C Request for judgment C
...	...	...

Fig.4

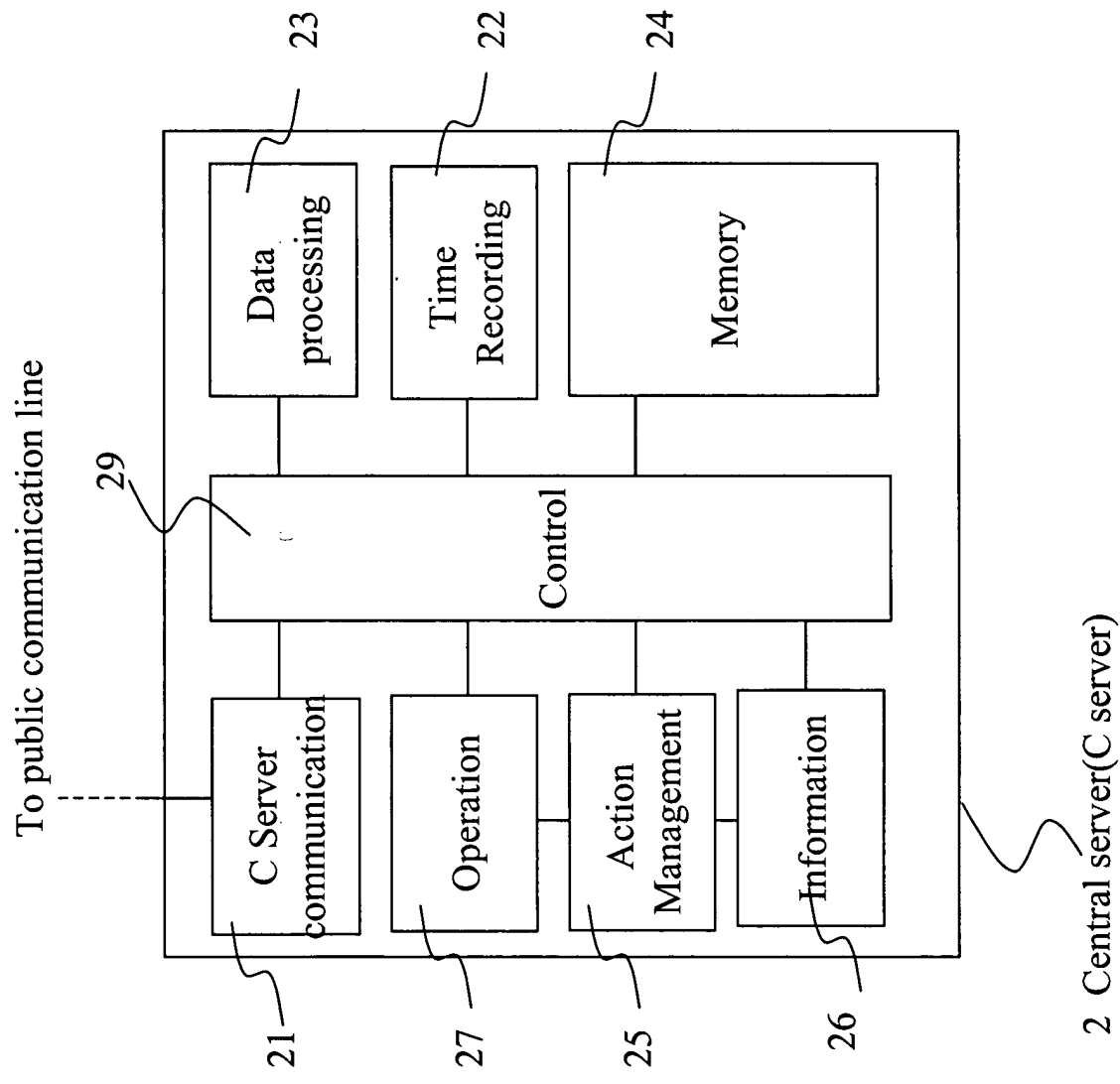


Fig.5

(a)

CServer,STD

Action Table Information

Task No.	Execution time/ trig. condtn	Action	Duration	Execution Result
1	*	Store	-	OK/NG
2	*	Transmission condition	-	OK/NG
3	24:00	Diagnose		JUDGE
4	*	Receive request	-	JUDGE
5	Month's 1st day	Make a report	-	OK/NG
...	...	...	...	...

(b)

C Server,C\_e1

Task No.	Execution time/ trig. condtn	Action	Duration	Execution Result
1	continuous	Contins connectn & diagnose with particular user s terminal	Continuo us	DATA
...	...	...	...	...

(c)

C Server, Uer\_ID,C\_S\_e1

taskN o.	Device ID	Execution time/ trig. condtn	Action	Duration	Execution Result
1	UDE	Every min.	Automatic mesurmnt:Pulse	-	DATA
2	UDE	Continuous	ALARM_Phone Now!!	10	OK/NG
...	...	...	...	...	...

(d) Judgment Table Information

Action	Execution Result	Judgment
Store	OK	-
	NG	Retry
Transmit conditions	OK	-
	NG	Retry
Diagnose	<Calculate conditon> Condtn = Good Condtn = Fair Condtn = Normal	Store diagnostic result
	Condtn = Medicr Condtn = Bad	Store diagnostic result Request to phone operatr
	<Alarm: Pulse> <Auto pulse msrmt> Condtn = Good Condtn = Fair Condtn = Normal	Store data OKData Transmi to S
Receive request	Condtn = Medicr Condtn = Bad	Store Data Request to phone operatr Change table_C_e1 Change table_C_S_e1
	<Alarm_***>	Store data request to phone operatr
	OK	-
Make a report	NG	Retry
...	...	...

Fig.6

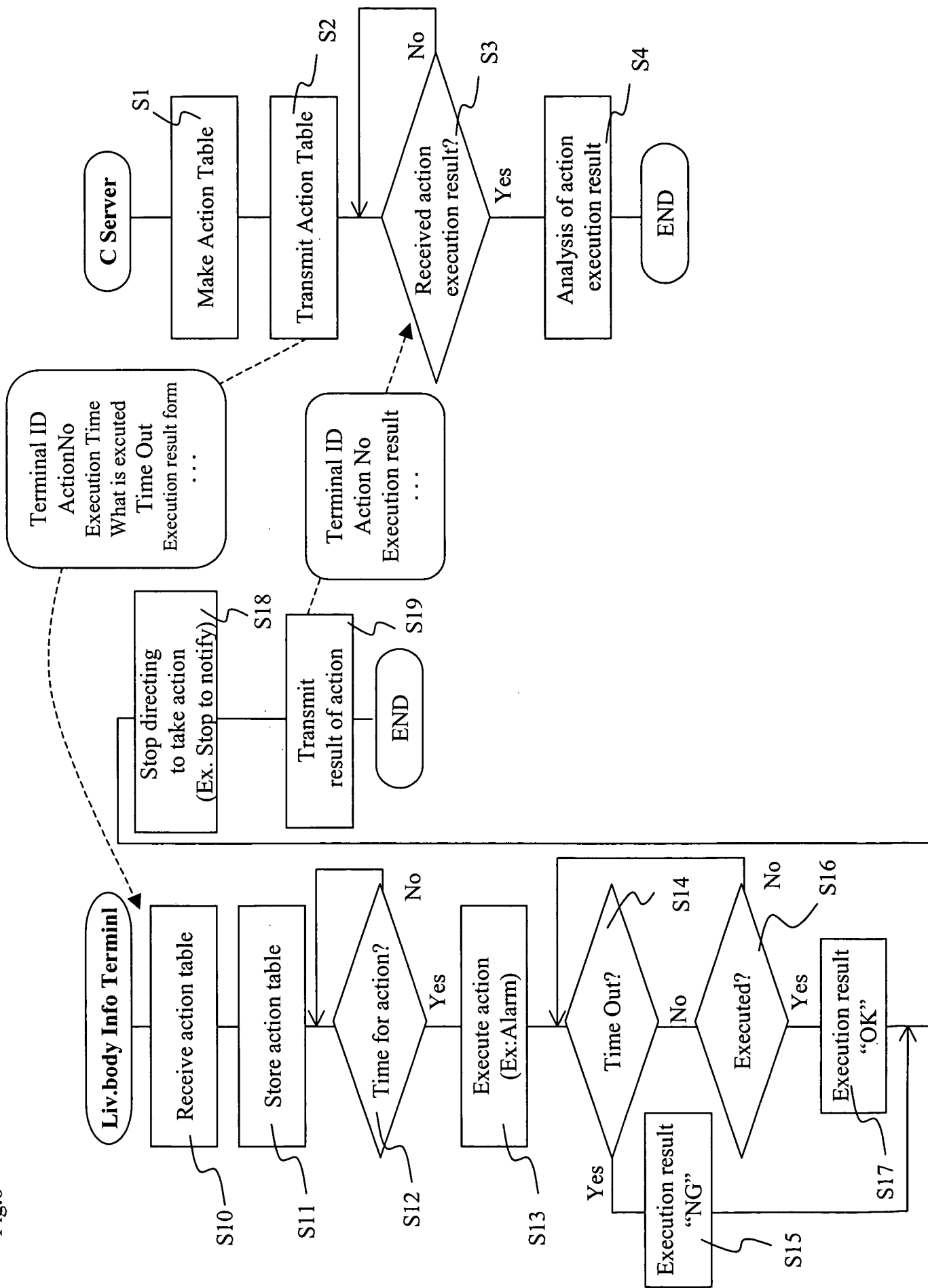


Fig.7

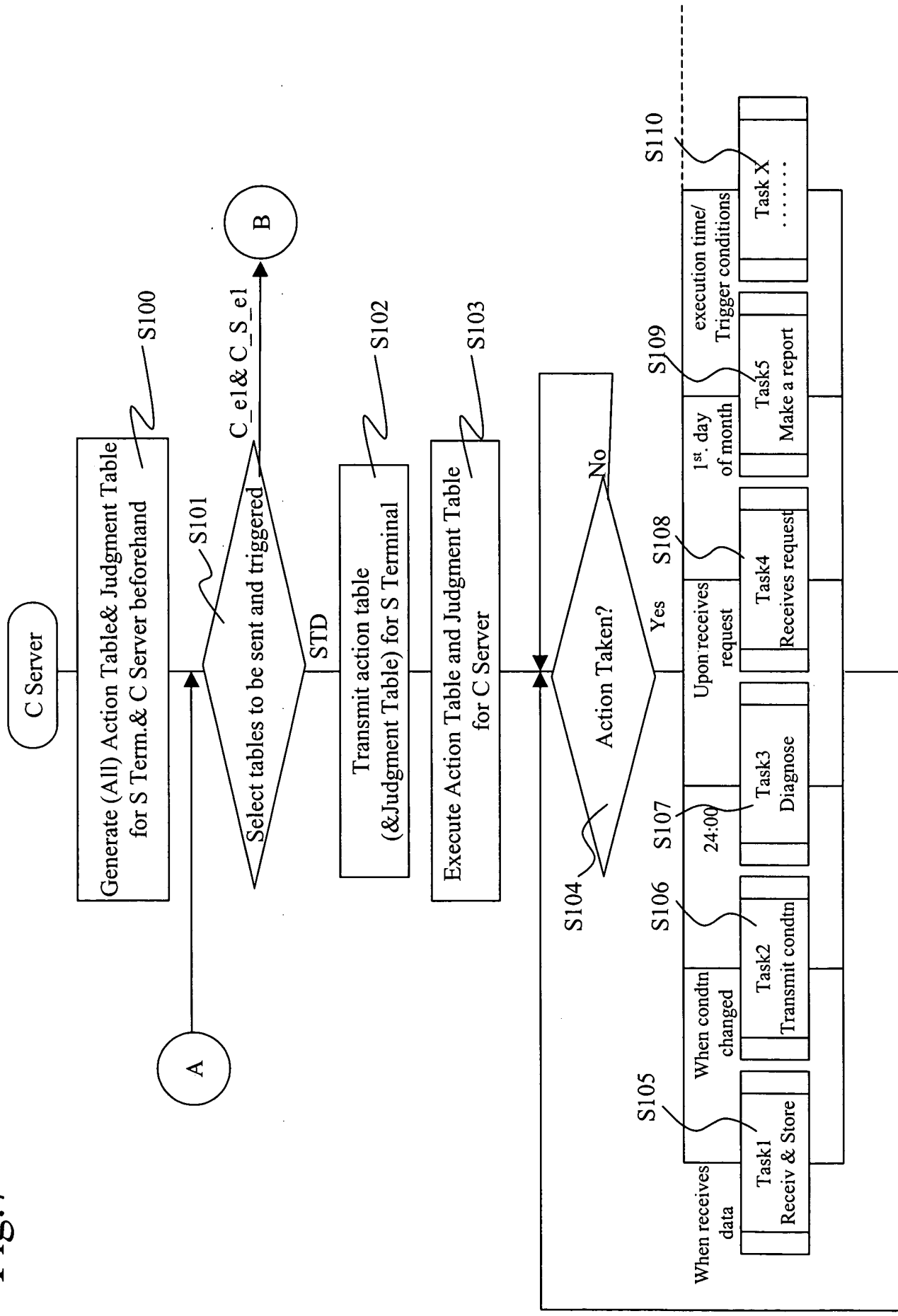


Fig8

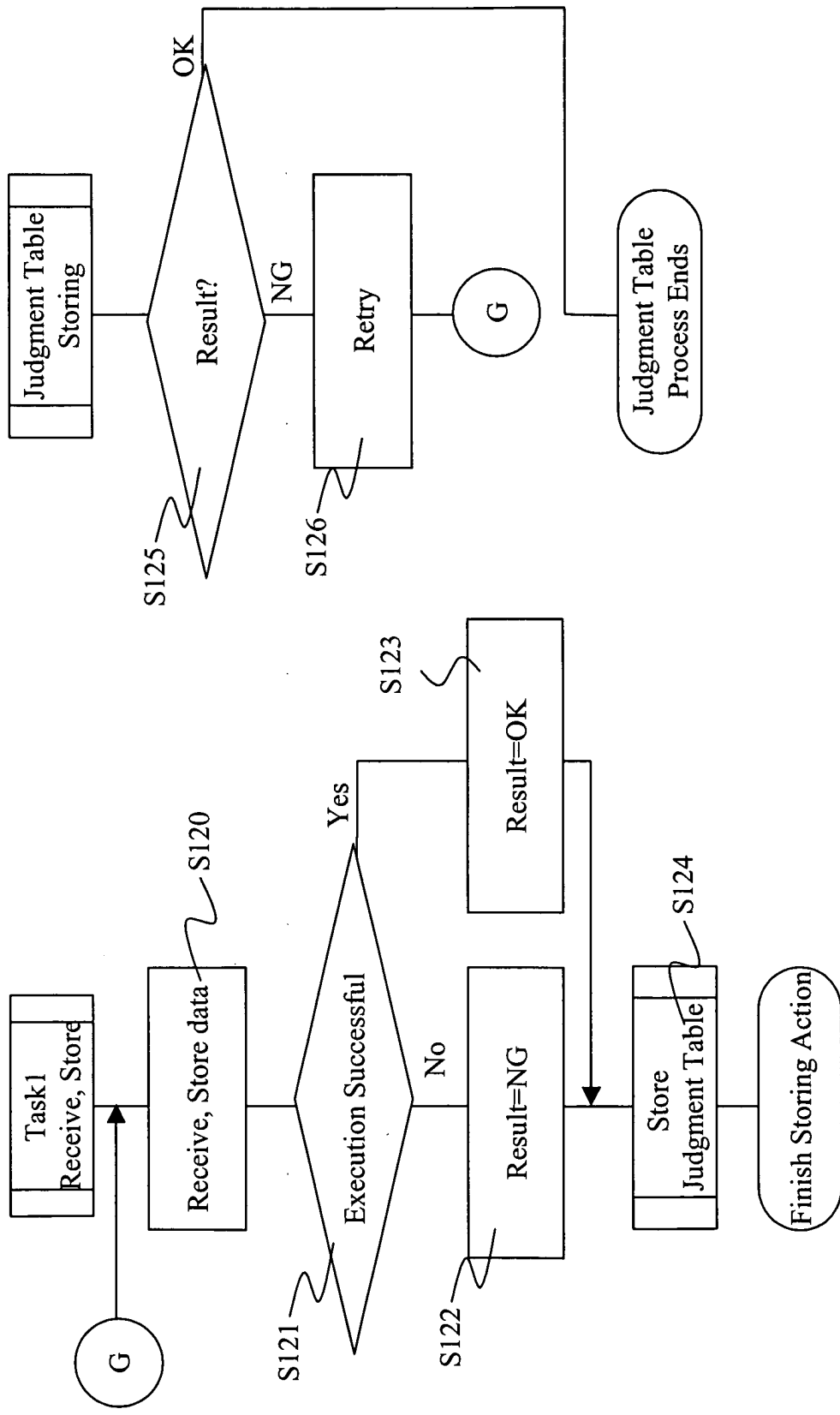




Fig.9

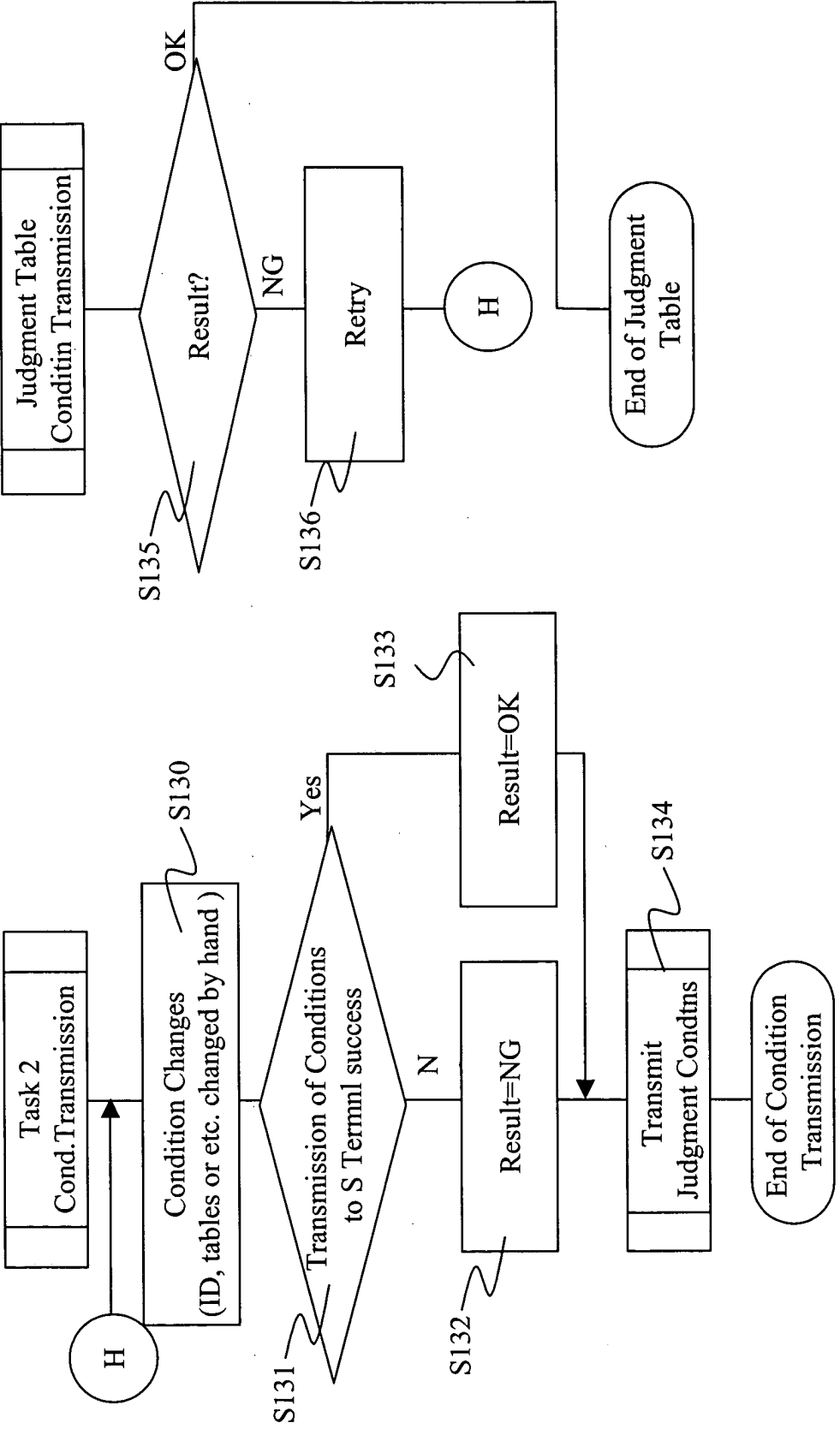


Fig.10

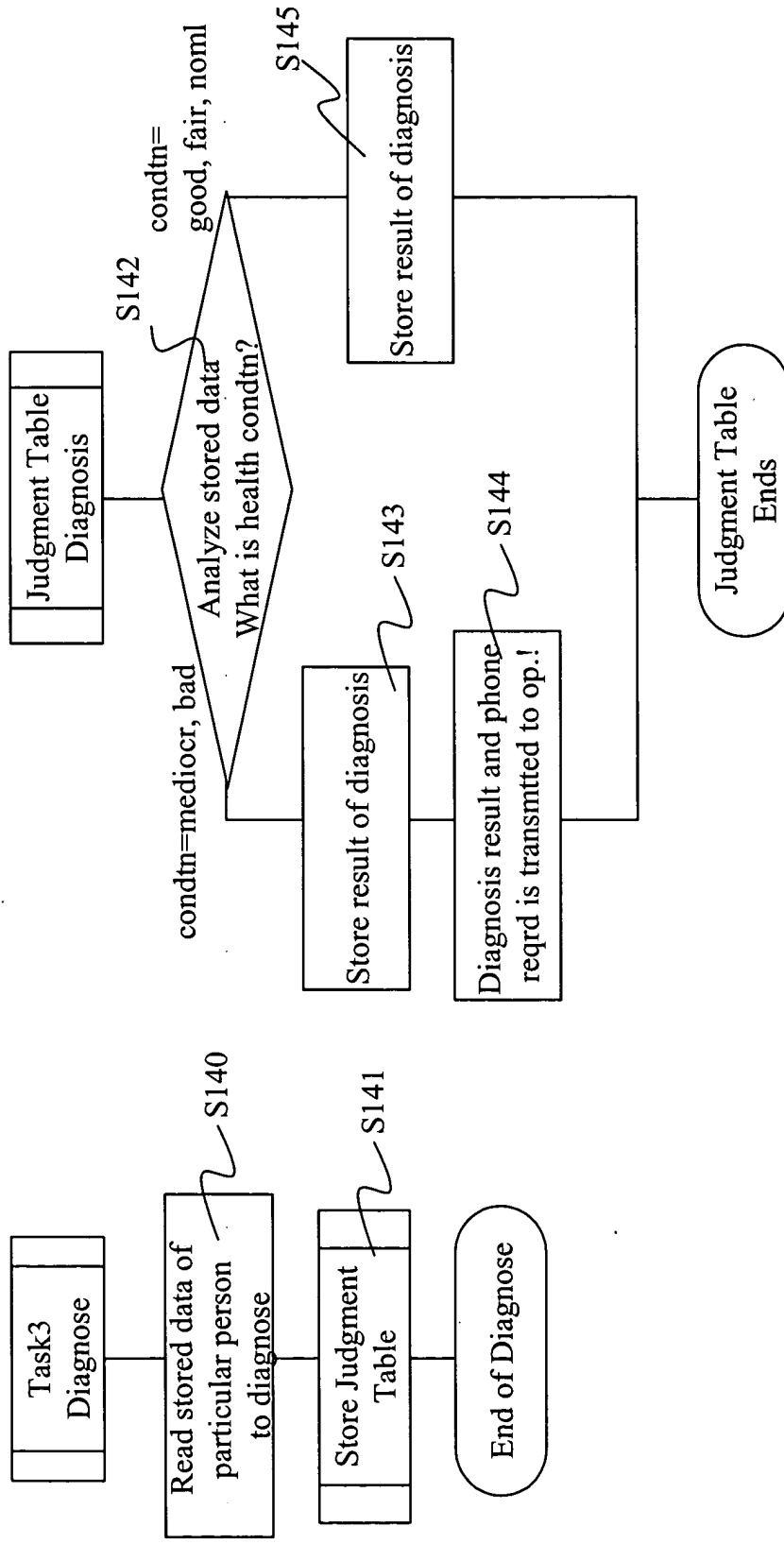


Fig.11

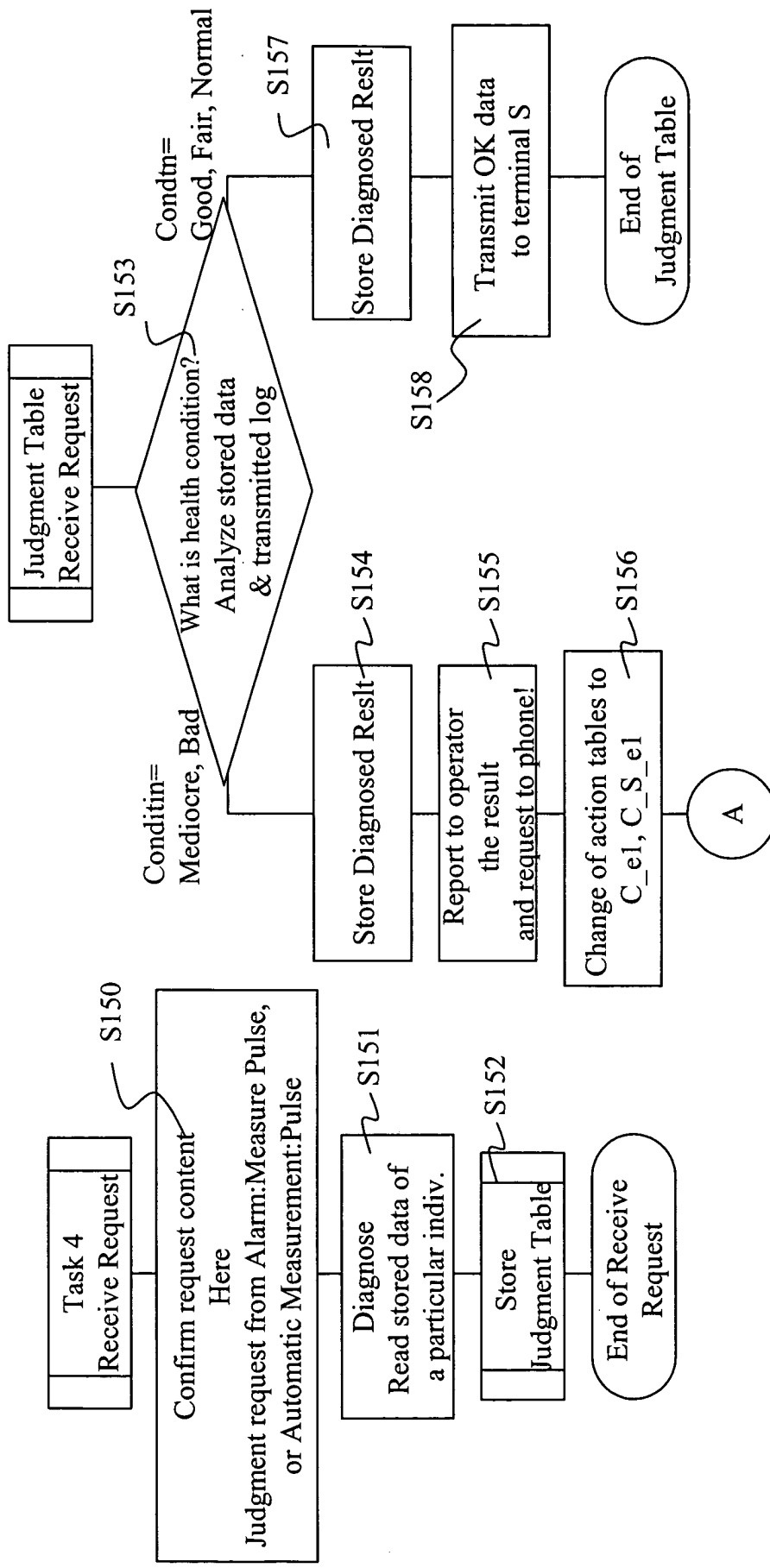


Fig.12

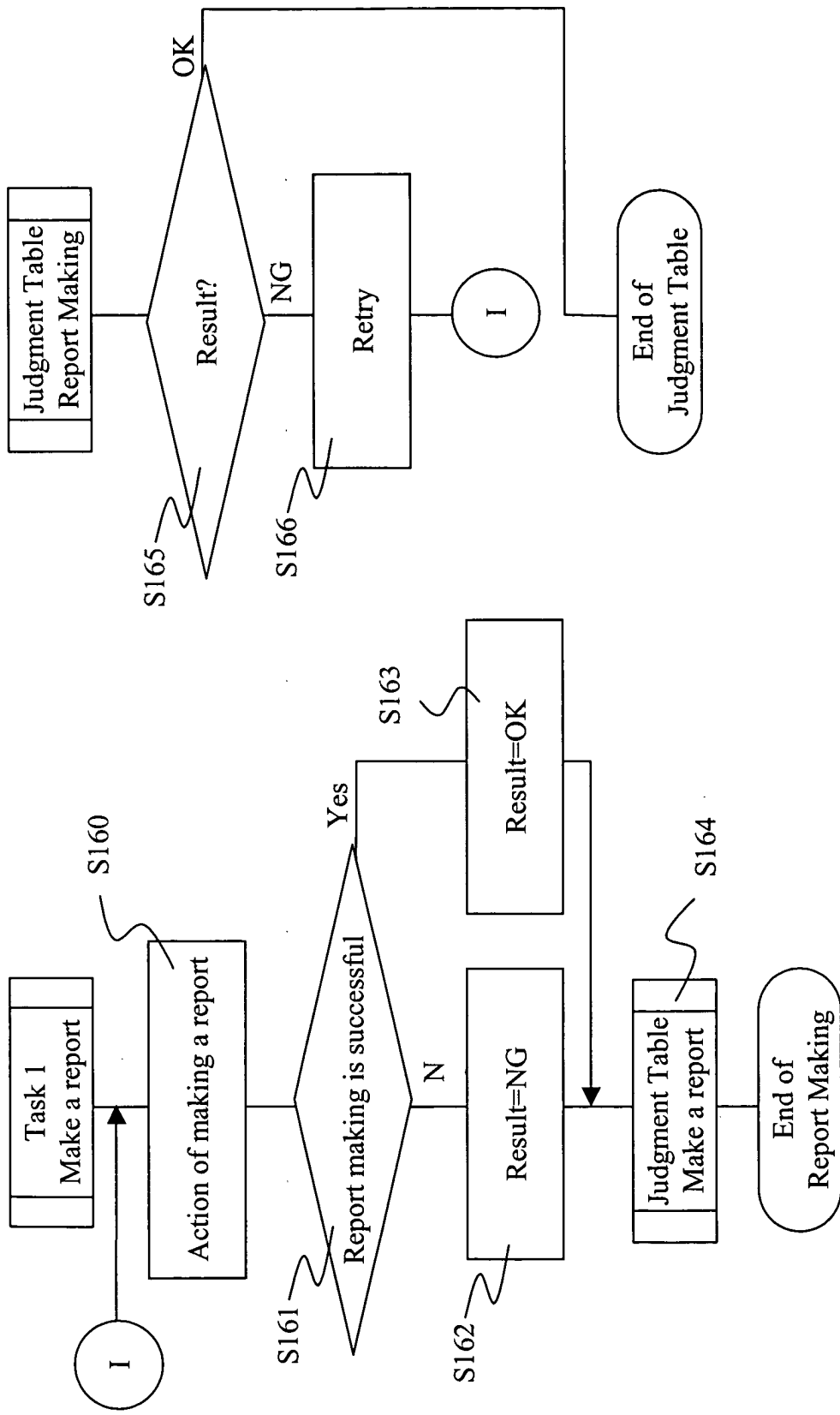


Fig.13

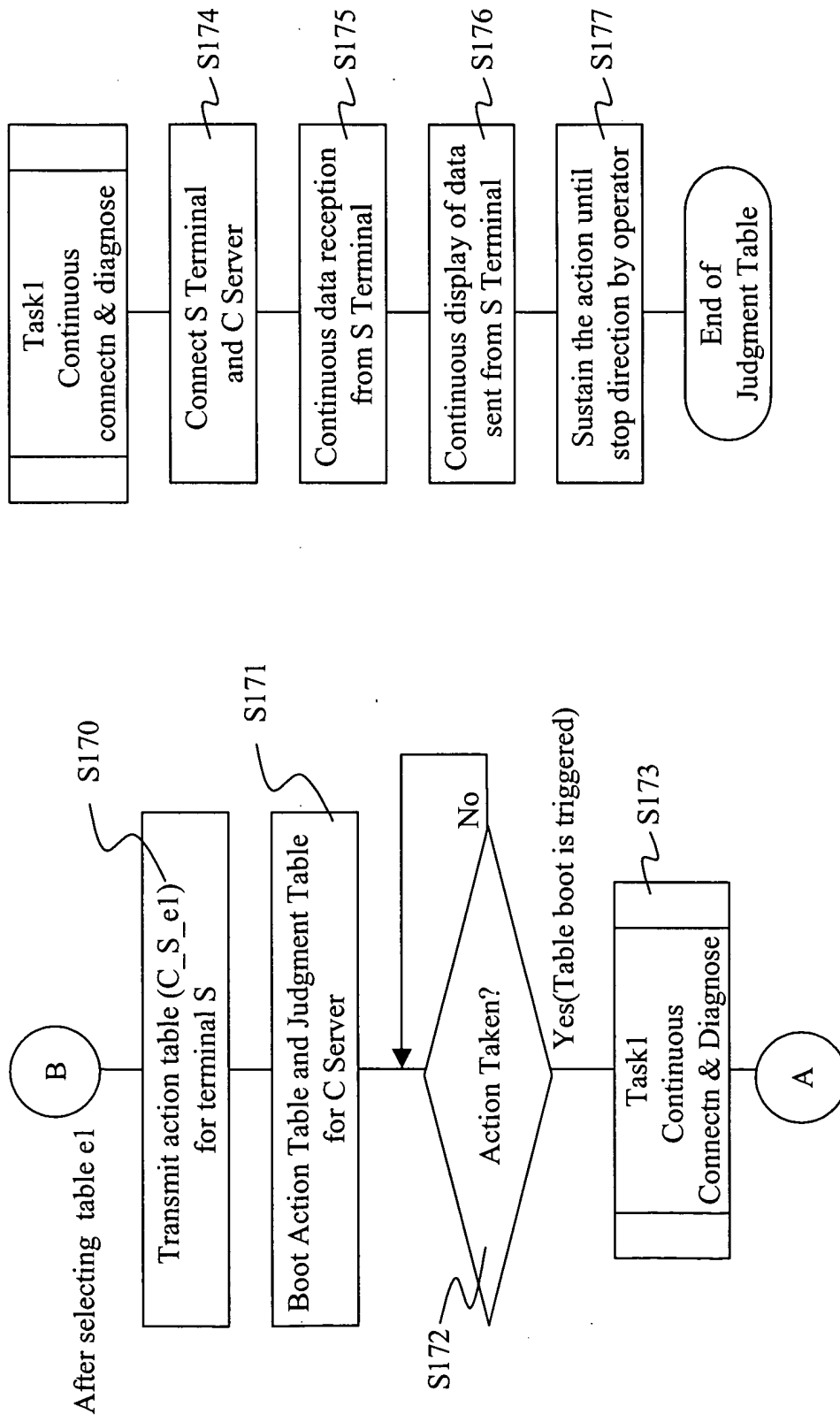


Fig.14

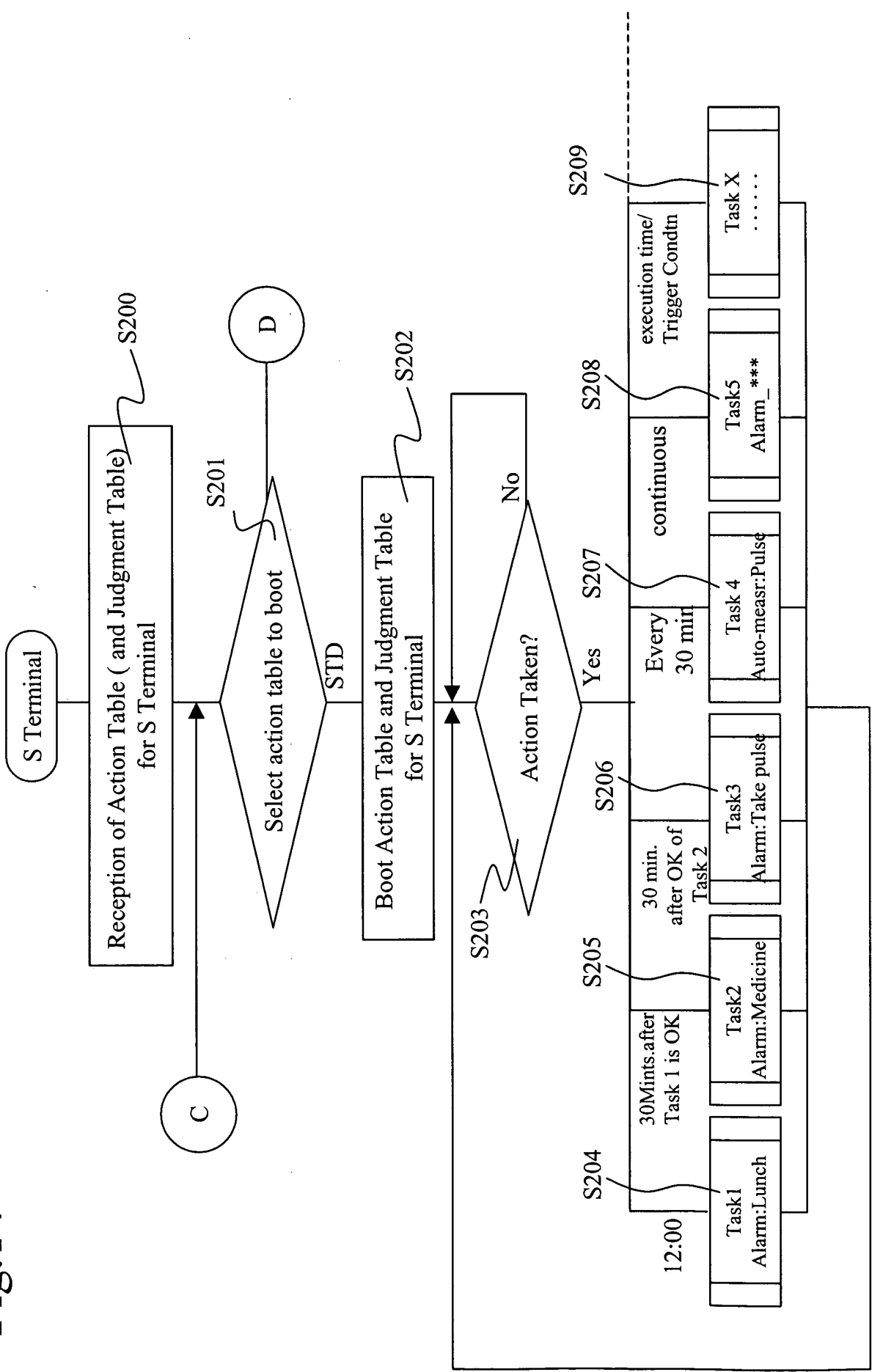


Fig15

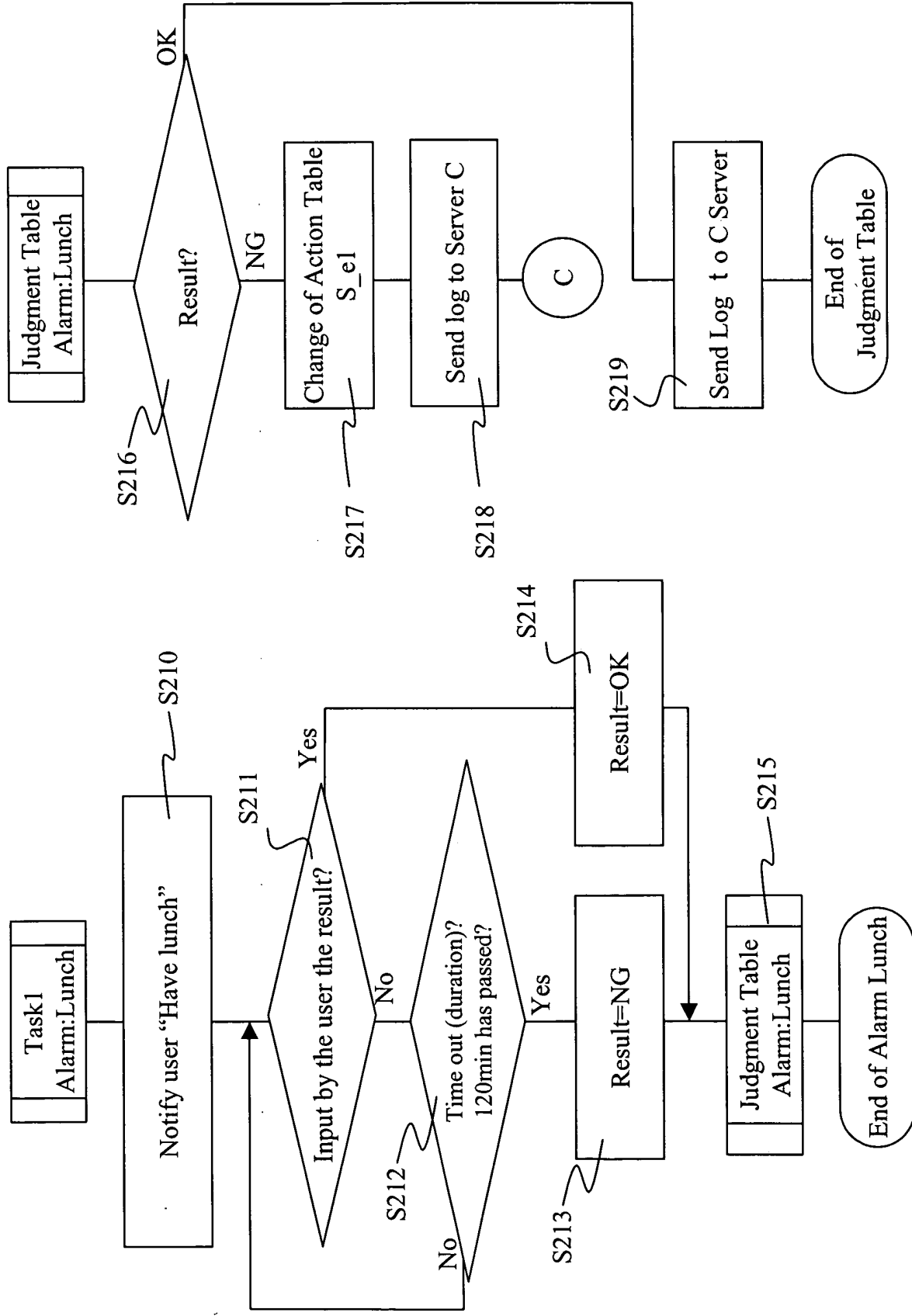


Fig.16

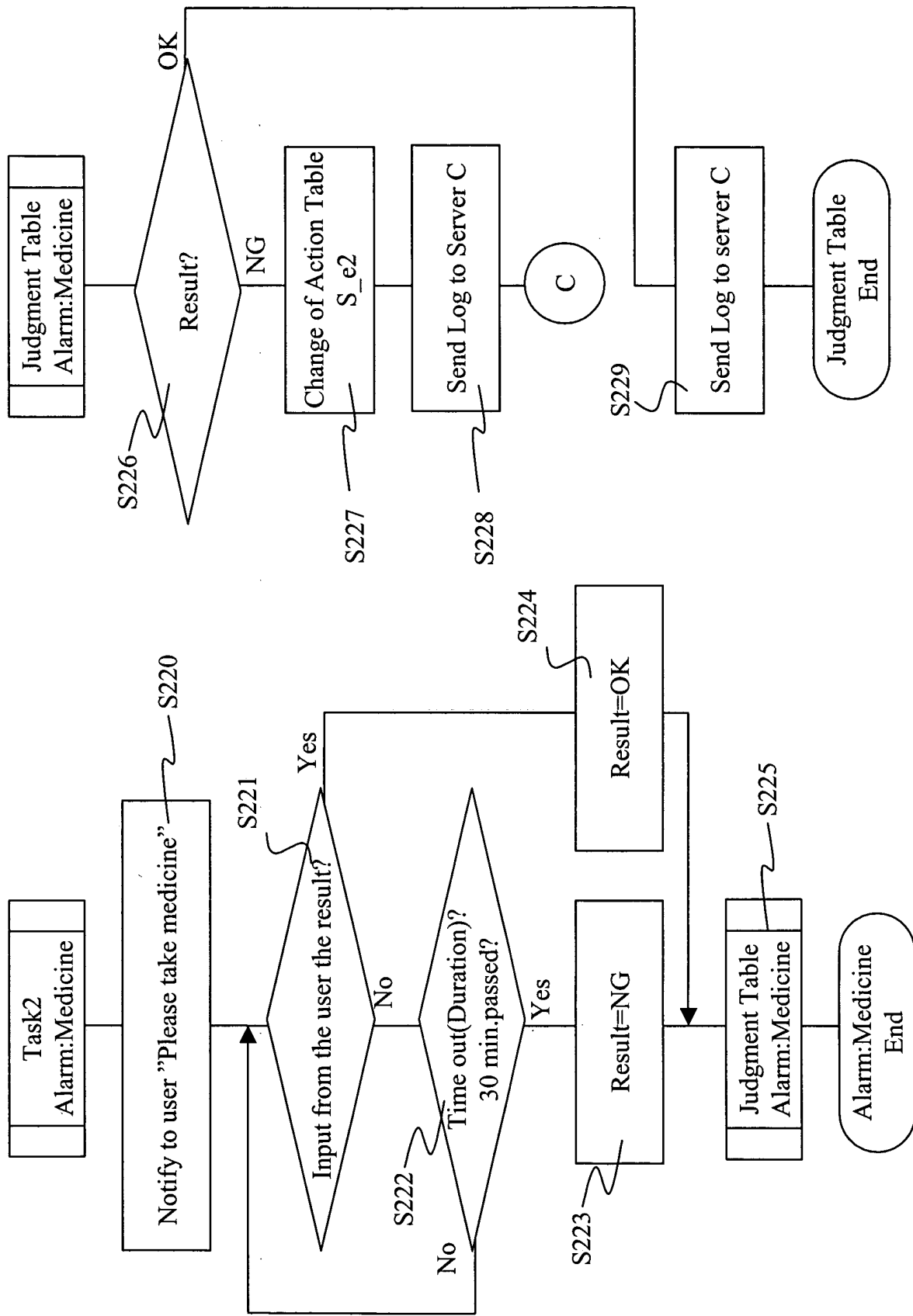




Fig.17

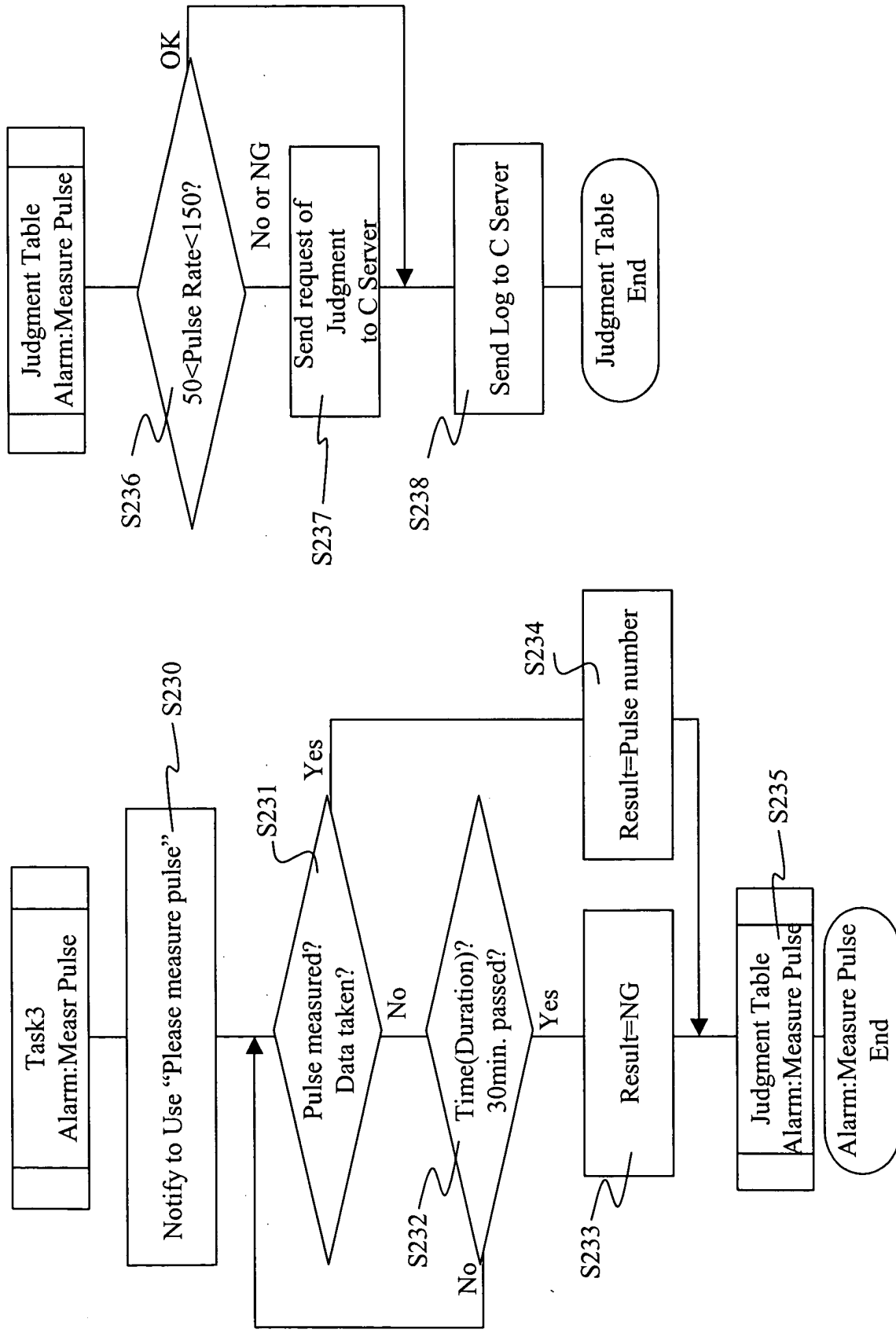


Fig.18

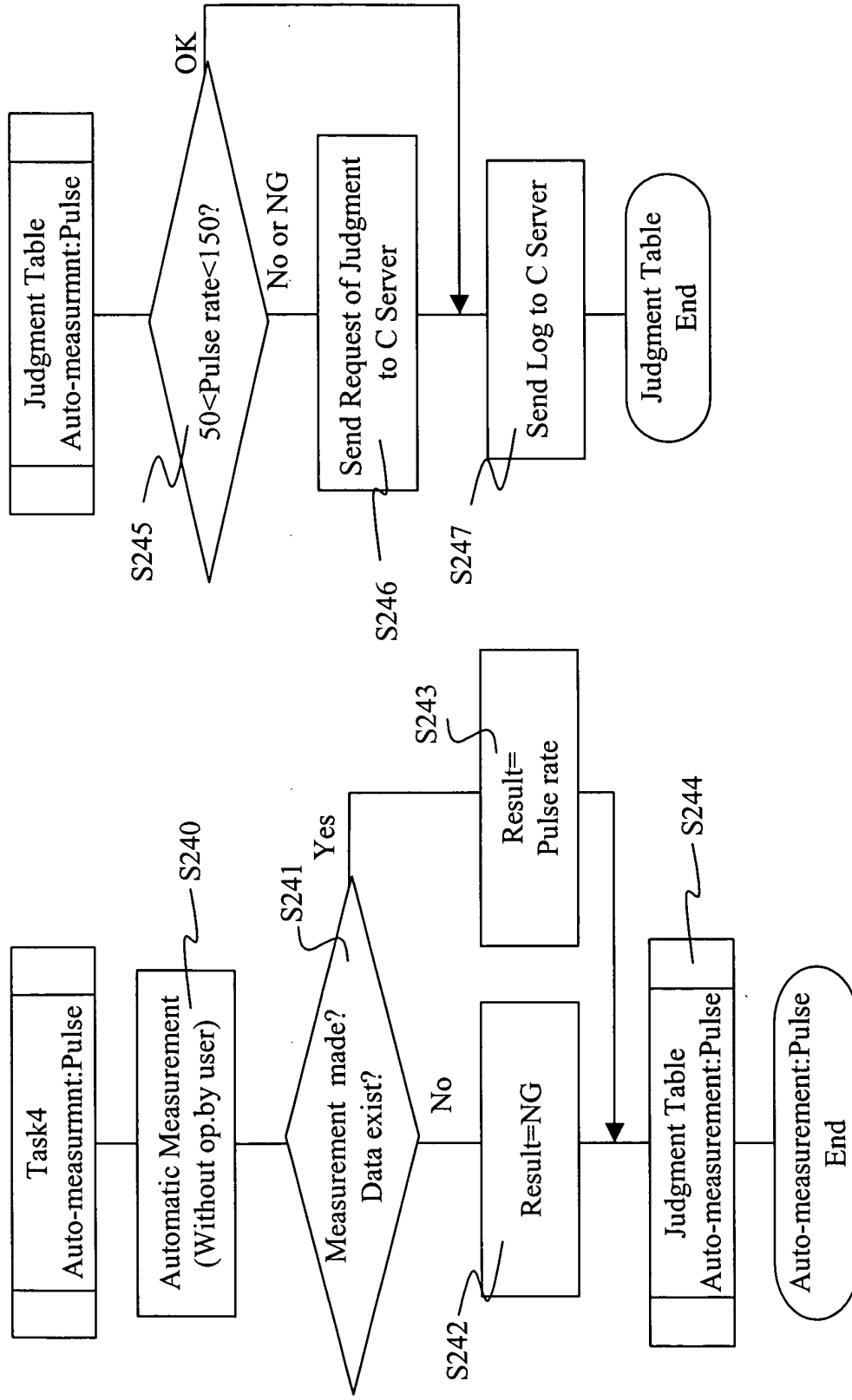


Fig.19

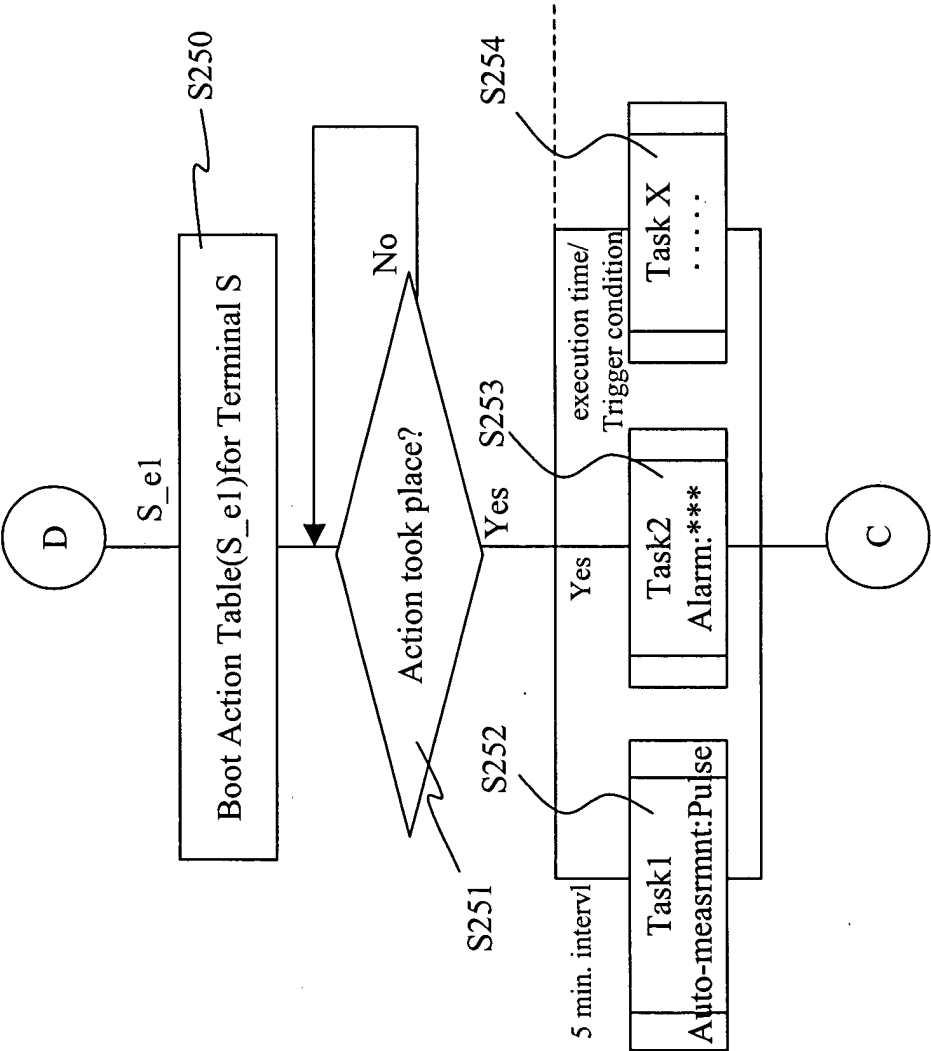


Fig.20

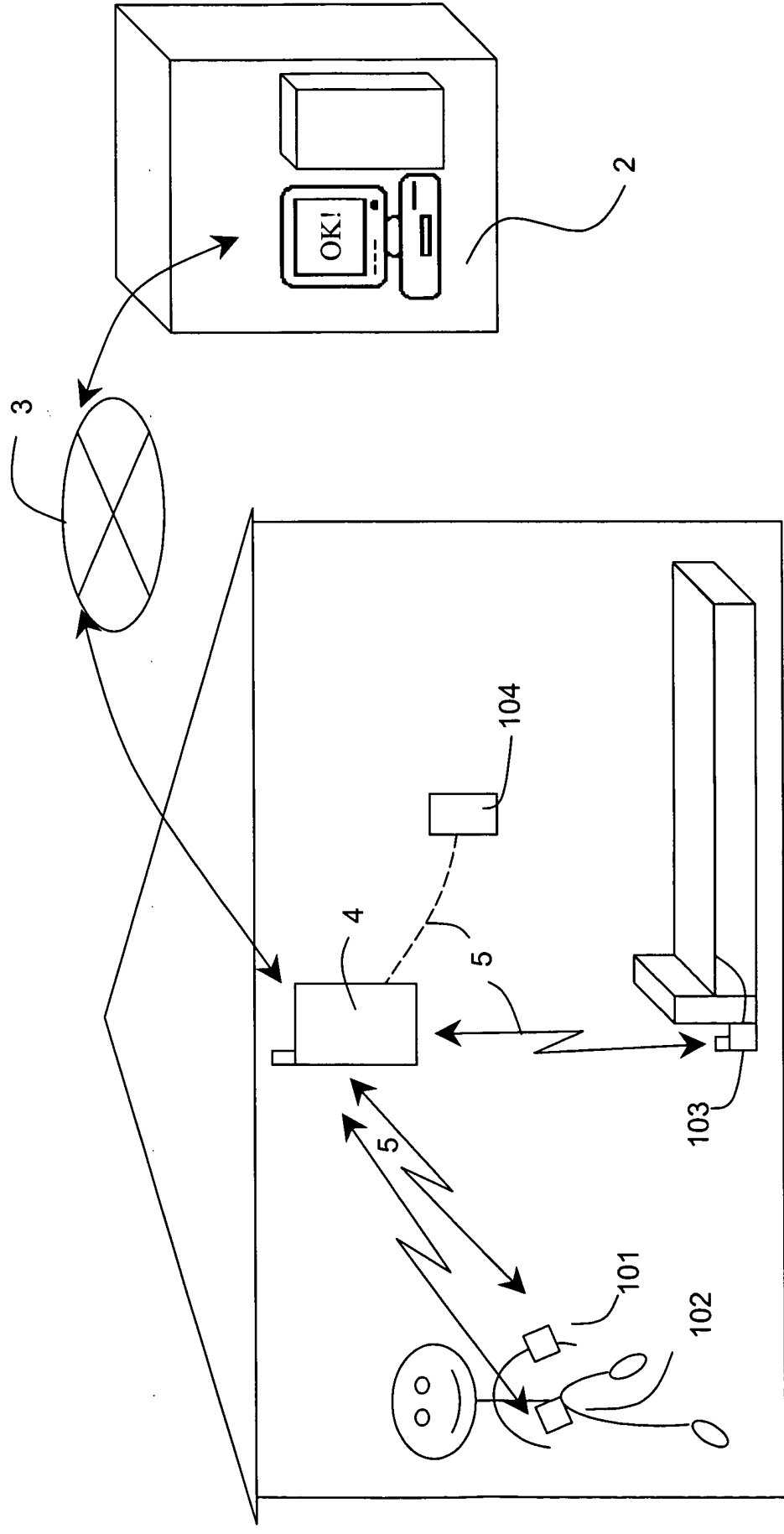


Fig.21

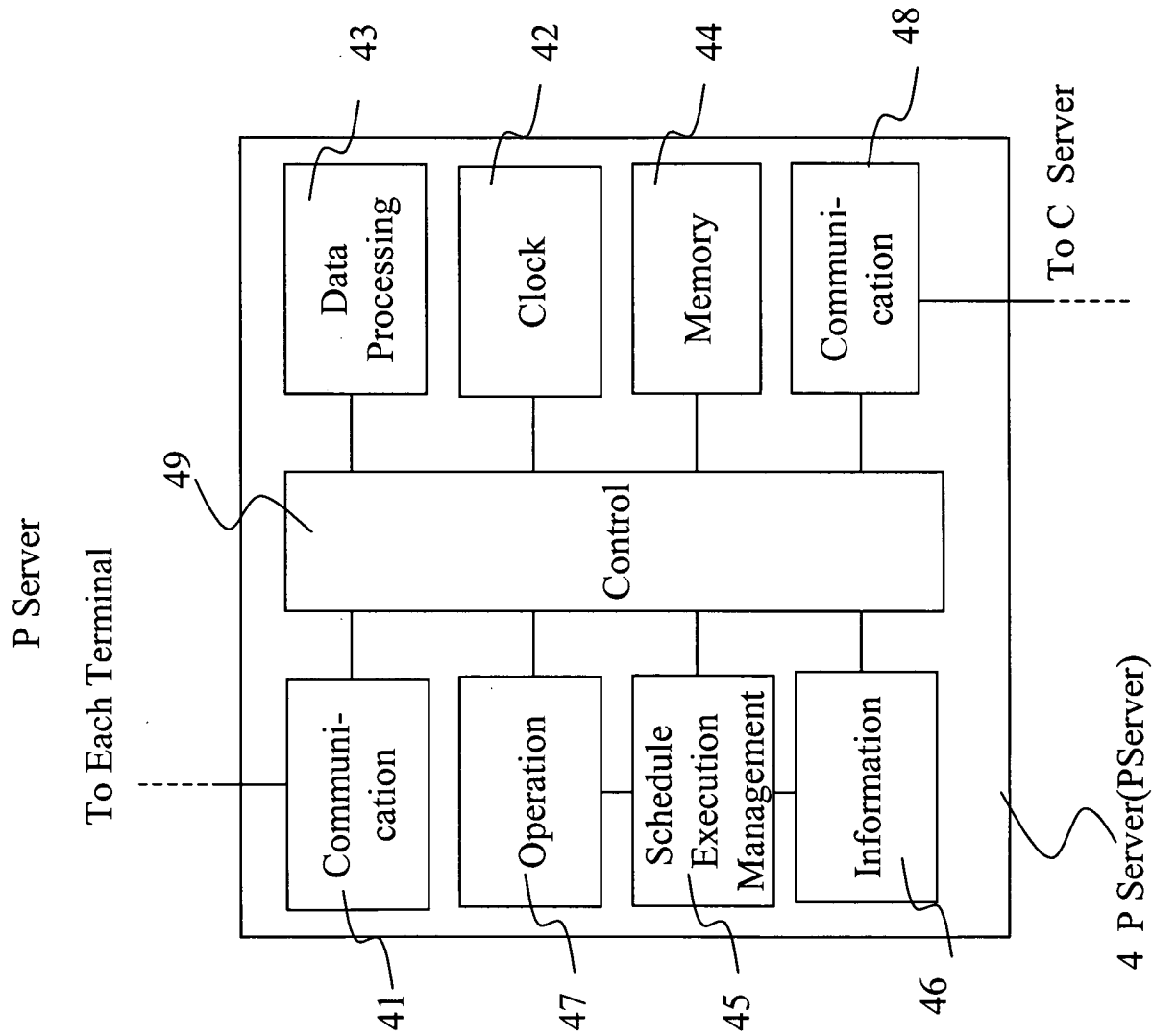
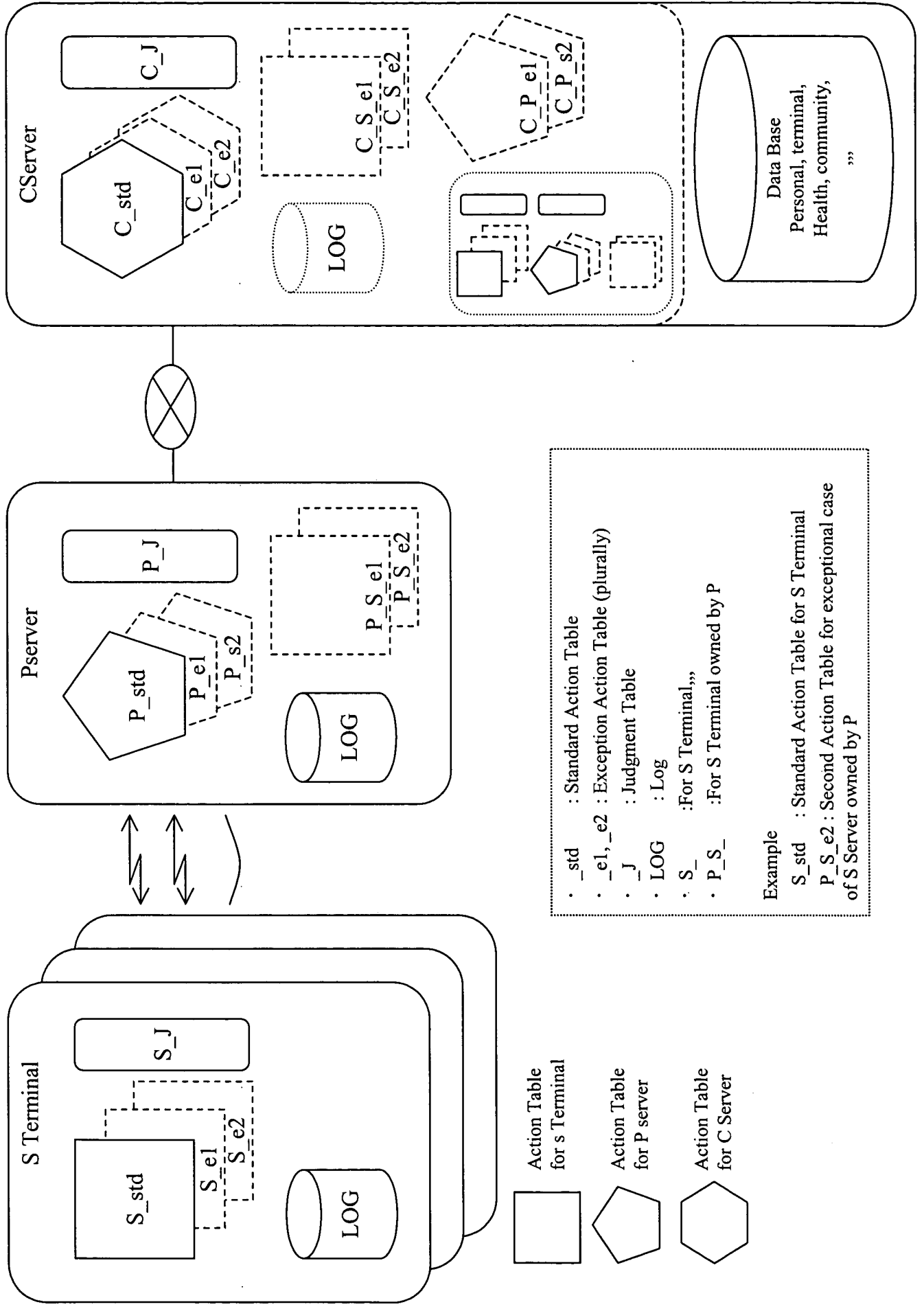


Fig.22



# Fig.23

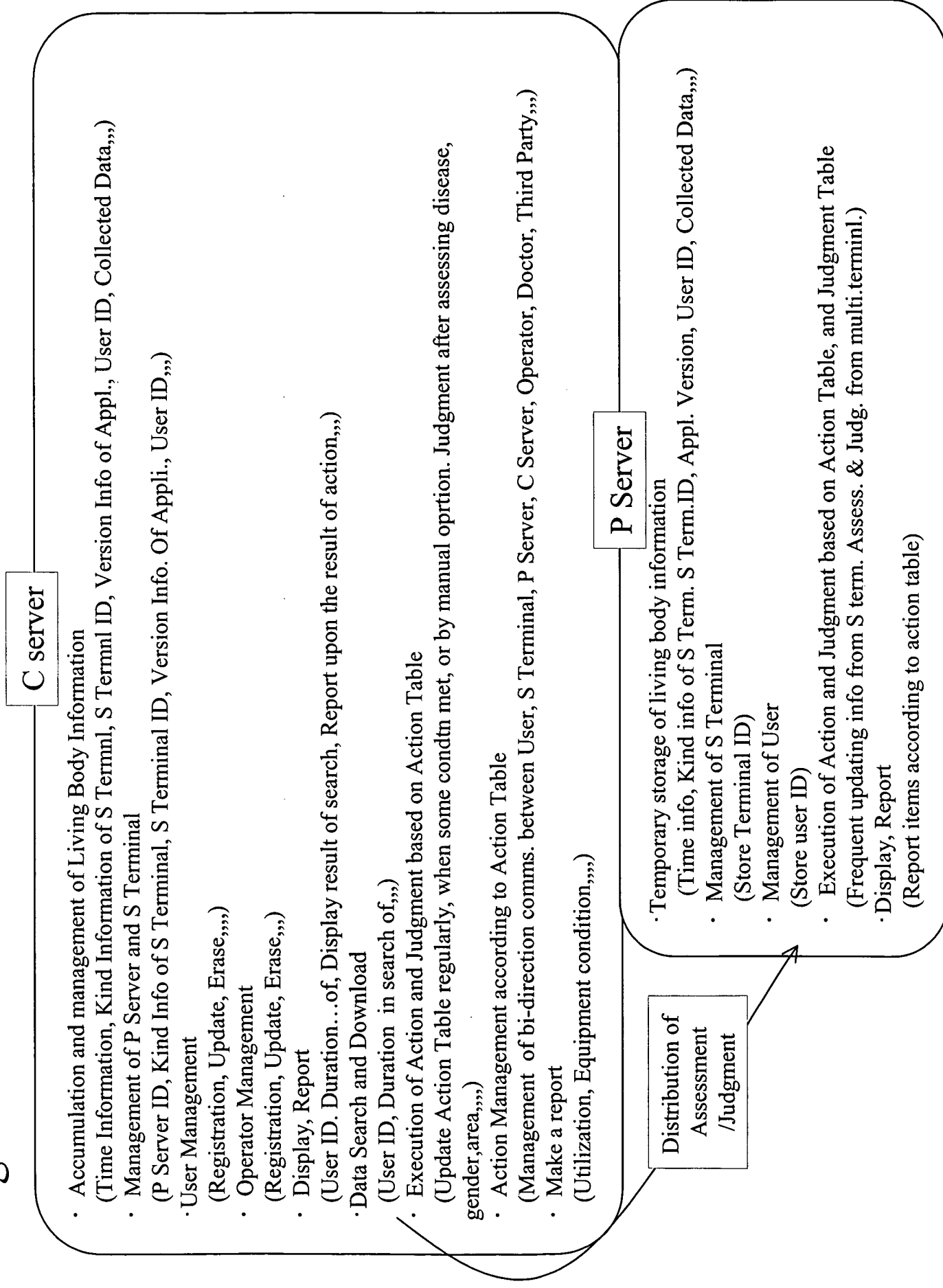


Fig.24

User ID,S Terminal,STD					
Task No.	Terminal ID	execution Time /trig. Condition	Action	Duration	Execution result
1	UDE	10:00	Alarm_Check Exercise_Start exercise. How is condition?	10	Condition (5,4,3,2,1)/NG
2	UDE	After Task No1 finished	Alarm: Display	Until P Judg. Of Cond.	-
3	UDE	PJudg_ Cond.(5,4,3,2)	Alarm_Start exercise	1	-
4	UDE	PJudg(Cond.5,4,3,2) Every min.	Auto-meas:Pulse_Excrcs(5,4,3,2)	Untill P Judg. of end of exercise.	DATA/NG
5	UDE	PJudg_ End of Exec.	Alarm_Thank you. Finish exercise	1	-
6	UDE	Pjudg_ Cond(1)	Alarm_Take a rest today. Operator will call you.	10	-
7	UDE	Pjudg_ Cond.(NG)	Alarm_Operator will call.	10	-
101	MM	PJudg_ Cond.(5,4,3,2)	Alarm_Start Exercise	1	-
102	MM	PJudg_ Cond.5,4,3,2)	Auto-measrm_action_Exercise(5,4,3,2)	Untill exercise amount to (5,4,3,2)	DATA/NG
103	MM	PJudg_End of Exercise	Alarm_Finish exercise. Thank you.	1	-
...	...	...	...	...	...

Judgment Table			
Action	Execution result	...	Judgment
Alarm_Confirm	Cond.(5,4)		Display_You look Healthy. Wait for a moment. Transmit log_P Request Judg_P
	Cond.(3)		Display_Wait for a moment Transmit log_P Request Judg_P
	Cond.(2,1)		DisplayAre you OK? Wait for a moment Transmit log_P Request Judg_P
	NG		Transmit log_P Request Judg_P
Auto-measure_Pulse_Exercise	DATA:Normal		DATA Store Transmit log after exercise_P
	DATA:Abnormal or NG		Transmit log_P Request Judg_P
Auto-measure_Act_Exercise	DATA:Total exercise amount to (5,4,3,2)		Transmit log_P Request Judg_P
	DATA:NG		Transmit log_P Request judge_P
...	...		...



Fig25

P Server,STD				
Task No.	Execution time/ trig. condm	Action	Duration	Execution result
1	*	Store	-	OK/NG
2	10:00/ 16:00/ 22:00	Send log_C	-	OK/NG
3	*	Receive requ	-	To judg. table
...	...	...	...	...

Judgment Table

Action	Execution result	...Judgment
Store	OK	-
	NG	Retry
Send log_C	OK	-
	NG	Retry
Receive request	<Alarm:Check for excrs> • Check log of other terminal Cond:=Normal/good	PJudg_Cond(5,4,3,2,1,NG)=Cond(5,4,3,2,1,NG)
	Condition=Mediocre	PJudg_Cond(4,3,2)=Cond(5,4,3) PJudg_Cond(1)=Cond.(2)orCond.(1) PJudg_Cond.(NG)=Cond.(NG)
	Condition=Bad	PJudg_Cond(3,2)=Cond(5,4) PJudg_Cod(1)=Cond(3)orCond(2)orCon(1) PJudg_Cond(NG)=Cond(NG)
	PJudg_Cond( )Transmit S	-
	• PJudg_Cond(1)or PJudg_Cond(NG)	Transmit log_C Request judge_C
	<Auto-meas_pul_excse> • Check log of other termi Cond=Norm/good	-
	Cond=Medcr/bad	Transmit log_C Request judge_C
	<Auto-Measrm_Actm_Exec> • DATA: Total Execs amount to (5,4,3,2) • DATA: NG	PJudg_End of execs_Transmit_S Transmit log_C Request judgment_C
	...	...

Fig.26

C Server,STD					
Task No.	Execution time/ trig. condtn	Action	Duration	Execution result	
1	*	Store	-	OK/NG	
2	*	Transmit condtn_P	-	OK/NG	
3	*	Transmit condtn_S	-	OK/NG	
4	24:00	Diagnose	-	Condtn	
3	*	Receive request	-	To judgment table	
4	1st day of mo.	Make a report		OK/NG	
...	...	...	...	...	

C Server,C_el				
Task No.	Execution time/ trig. condtn	Action	Duration	Execution result
1	Contnus	Continual connection with P serverl of a particular user & continl diagnose	20	DATA
...	...	...	...	...

C Server,C_P_el				
Task No.	Execution time/ trig. condtn	Action	Duration	Execution result
1	Continual	Continual connection with S Termnl of a particular user & continl diagnose	20	DATA
...	...	...	...	...

C Server, Uer_ID,C_S_el					
Task No.	Termnl ID	Execution time/ trig. condtn	Action	Duration	Execution result
1	UDE	Continuous	Auto-measrmt_Pulse	-	DATA
2	UDE	Continuous	Alarm_ I'll call right away!		
...	...	...	...	...	...

Fig.27

Action	Execution result	...Judgment
Store	OK	-
	NG	Retry
Transmit condition_P	OK	-
	NG	Retry
Transmit condition_S	OK	-
	NG	Retry
Diagnose	<Condition Calculation> · Check log of each user Cond. = Good Cond. = Fair Cond. = Normal	
	Cond. = Medicre Cond. = Bad	Store result of diagnose
	<Alarm_check for Execs> · Check log of each user	Store result of diagnose Request to call operator Display the result of checking the log. Change of action table(C_e1, C_P_e1, C_S_e1)
Receive request	<Aut-measr Pulse_eerise> · Check log of each user	Store result of diagnose Request to call operator Display the result of checking the log. Change of action table (C_e1, C_P_e1, C_S_e1)
	<Aut-measr_acti_n_excecs> · Check log of each user	Store result of diagnose Request to call operator Display the result of checking the log. Change of action table (C_e1, C_P_e1, C_S_e1)
Make a report	OK	-
	NG	Retry
...	...	...

Fig.28

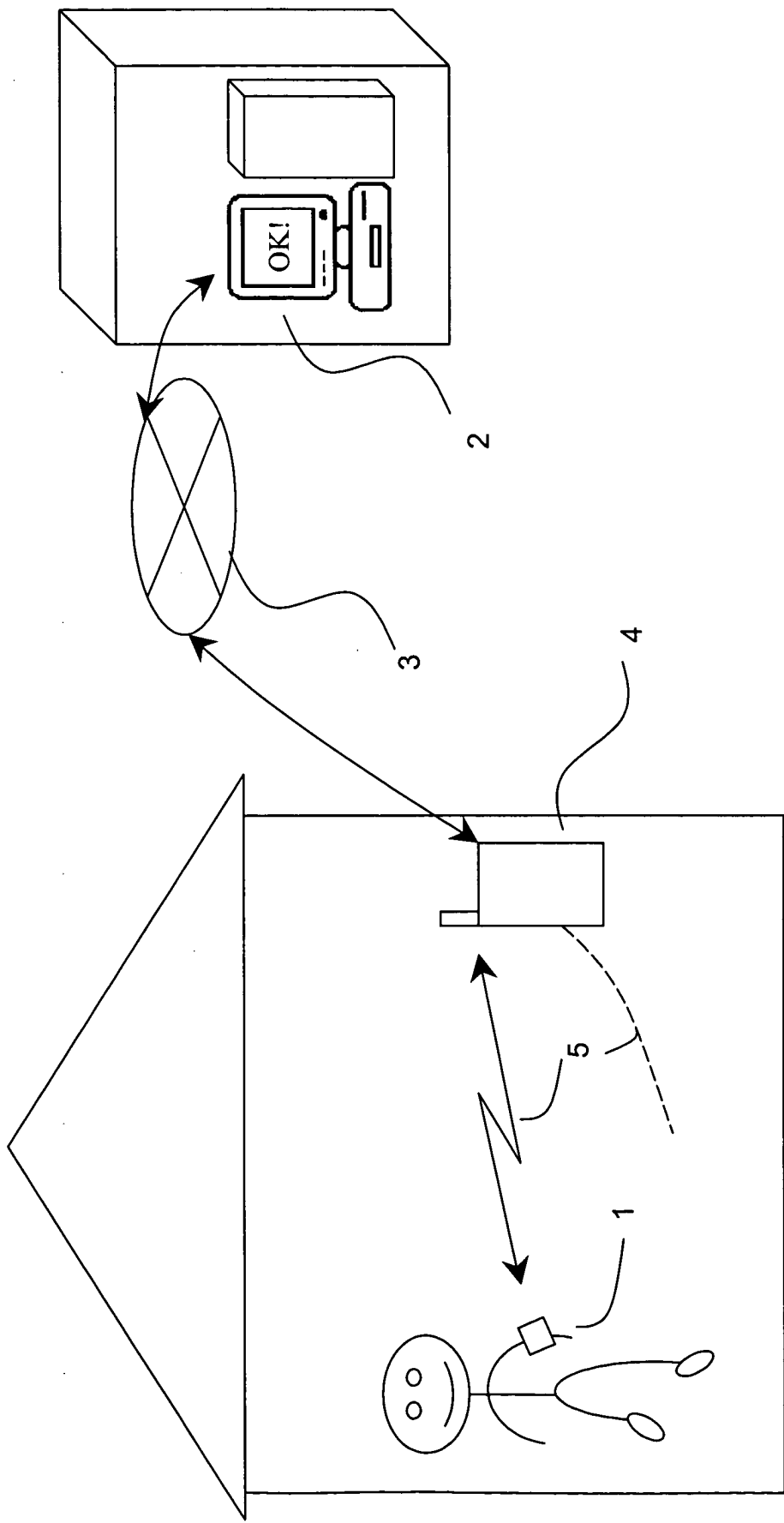


Fig.29

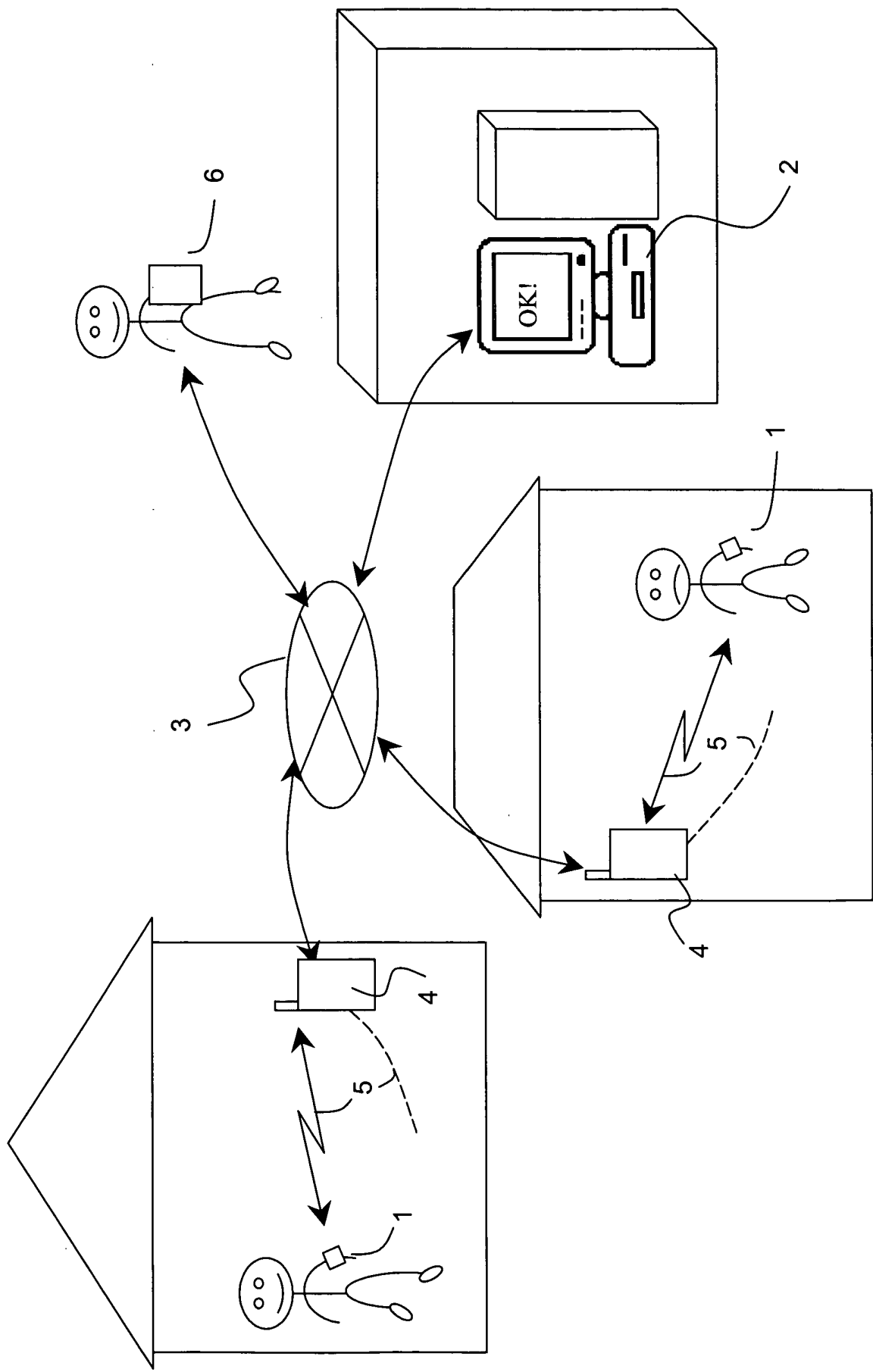


Fig.30

No	action	Schedule-1	Reslt-1	Schedule-2	Reslt-2	Schedule-3	Reslt-3	Schedule-4	Reslt-4
1	Time of measuring pulse beat	6:00	6:00						
	# of pulse beat? Normal from 40 to 180 bpm		61						
2	Time of measuring blood sugar	7:30	7:45	a					
	Normal? Normal range from 80 to 120 mg/dL		85						
3	Have a breakfast	8:00	8:15	b					
4	Take medication	8:30		8:45					
5	Time of measuring blood sugar after meal	10:00		10:15	10:20				
	Values? Normal range from 100 to 140 mg/dL				123				
6	Time of measuring pulse beat	11:00		11:00	11:00				
	# of pulse beat? Normal from 40 to 180 bpm				107				
7	Time of measuring blood sugar	11:30		11:30	11:40				
	Values? Normal range from 80 to 120 mg/dL				90	d			
8	Have a lunch	12:00	c	12:00	12:28				
9	Take medication	12:30		12:30		12:58	13:05		
10	Time of measuring blood sugar after meal	14:00		14:00		14:28	15:10		
	Values? Normal range from 100 to 140 mg/dL						133		
11	Time of measuring pulse beat	16:00		16:00		16:00	16:00		
	# of pulse beat? Normal from 40 to 180 bpm					200	e		

Fig.31

Action	Execution result	Judgment
Measuring pulse beat	From 40 to 80 bpm	Record measured values
	<40, >180 bpm	Record measured values, notify ( terminal,C server ) , change of schedule
	From 40 to 80 bpm	Record measured values
Measuring blood sugar	<80, >120 mg/dL	Record measured values, notify ( terminal,C server ) , change of schedule
Measuring blood sugar	From 100 to 140 mg/dL	Record measured values
	<100, >140 mg/dL	Record measured values, notify ( terminal,C server ) , change of schedule
Take a meal	Less than 15min.	Record log
	Between 15min.and 30 min.	Record log,change of planned time of action
	More than 30 min. ( time out)	Record log , Change table
Take medication	Less than 30 min.	Record log , change of planned time of action
	More than 30 min.	Record log , Change table

Fig.32

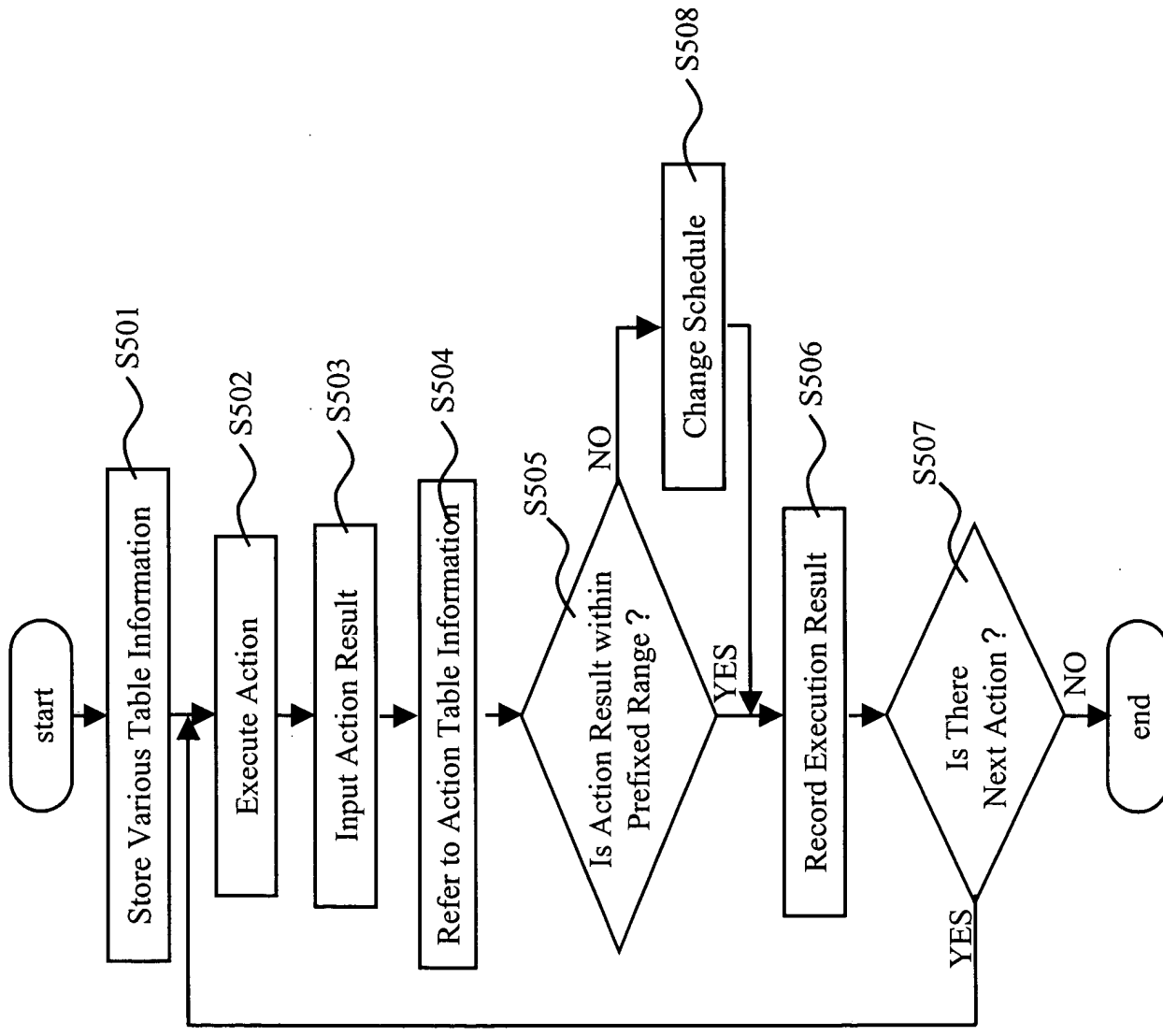




Fig.33

Exception Action Table Information

	Action	Schedule	Execution Result
1'	Press 「Emergency」 button	Start time of Irregular Schedule (16:01)	16:02
2'	Start pulse beat measurement ( every one minute interval )	Start time of Irregular Schedule (16:01)	16:01
	Record pulse beat number		Normal Exec ( OK)
3'	Transmit stored data ( To C server )	C sever command receiving time	16:16



Fig.35

Schedule Information

Action	3/10	Execution result	3/11	Execution result	3/12
Start exercise	10:00		10:00		10:00
Start pulse beat measurement	10:00		10:00		10:00
Start acceleration measurement	10:00		10:00	Total 60 min.	10:00
Body weight measurement	10:00		10:00		10:00
Stop exercise	10:30	Consumed calories = 82kcal	11:00	Consumed calories = 123kcal	10:50
Stop pulse beat measurement	10:30		11:00		10:50
Stop acceleration measurement	11:00		11:00		10:50

Total 50 min.

Judgment Table Information

Calories spent ( Exec. result )	Next excrse length ( min )
Less than 100kcal	60
100kcal ~ 130kcal	50
130kcal ~ 170kcal	40
More than 170kcal	30

Fig.36

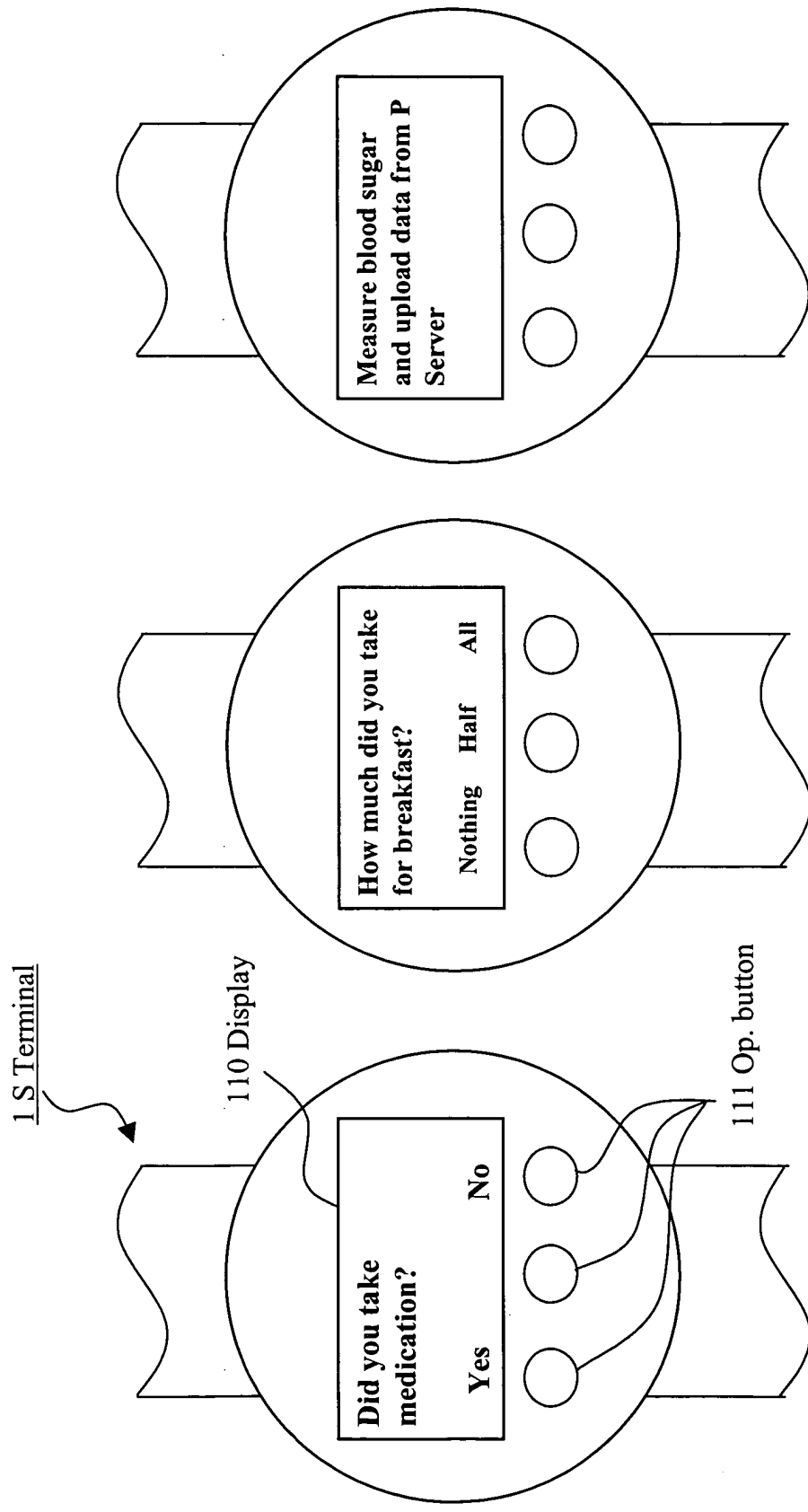


Fig.37

